

# (12) United States Patent D'Sanson

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## (54) 3 IN 1 LADDER, DOLLY, AND SEATING **SYSTEMS**

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CPC . **B62B** 3/02 (2013.01); **A47C** 13/00 (2013.01); E06C 1/39 (2013.01); E06C 1/397 (2013.01)

(58) Field of Classification Search

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#### (56)**References Cited**

#### U.S. PATENT DOCUMENTS

Parry	7/1931	A *	1,814,960
-	11/1000		1 22 5 1 10
			4,235,449
Geschwend	11/1982	A *	4,358,124
Ast	1/1985	A	4,494,626
Mason	9/1988	A *	4,768,617
Storm	8/1999	A *	5.937.971
			-,,-
Roudebush	12/2000	Α	6,158,749
			6,880,835
			7,093,840
			7,487,859
Benson	11/2007	Al	2007/0262567
Kim	1/2011	A1*	2011/0011674
Hernandez	12/2013	A1*	2013/0319794
O'Shea	2/2014	A1*	2014/0041963
		_	
Tarran Geschwend Ast Mason Storm Roudebush Tornabene Lucas Wang Benson Kim	11/1980 11/1982 1/1985 9/1988 8/1999 12/2000 4/2005 8/2006 2/2009 11/2007 1/2011 12/2013	A * A * A * A * A * B2 B2 B2 A1 * A1 *	5,449 8,124 4,626 8,617 7,971 8,749 0,835 3,840 7,859 52567

## \* cited by examiner

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#### **ABSTRACT**

The 3 in 1 ladder, dolly, and seating system is a portable, device that can function as a set of stairs, a ladder, a seating area, and a cargo dolly. It is a four wheeled dolly, or a twohandle hand truck with two wheels in front, and can extend to become a ladder or various types of stairs, including steps for sitting. It is constructed from durable aluminum, or another appropriate material. The device can convert into a set of stairs with removable guardrails, or a smaller set of stairs that can be used as seating with foldable backrests. It can be manufactured with an umbrella holder and an optional canopy tent.

## 3 Claims, 12 Drawing Sheets

